

National Aeronautics and
Space Administration



EXPLORE SCIENCE

Former STEM Enhancement in Earth Science (SEES) Interns Win Top Prize in Data Visualization and Healthcare Solution Categories in AWS Data Exchange Challenge

MARGARET BAGUIO

Program Manager, NASA Texas Space Grant Consortium

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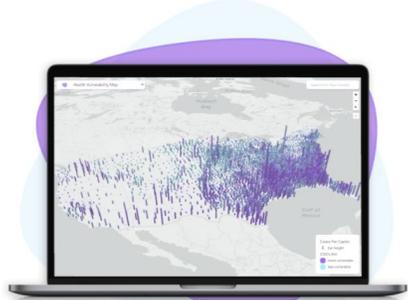
VIDEO COLLABORATORS TAKE ACTION

COVID-19 Health Vulnerability Mapper

Access and Equity

Introducing: An interactive mapping tool that illustrates how certain demographics—including low-income communities, ethnic minorities, and immigrants—have been disproportionately affected by the COVID-19 pandemic. We're inviting you to explore the geography of this social justice issue with us, and learn how to combat it, as outbreaks evolve in real time.

Launch Interactive Map





Search for locations.

Browse and search the map to find a community, whether its your own or across the country.



Explore the data.

Use tools to analyze the spread of outbreaks in real-time relative to social vulnerability in an intuitive, visual, tangible medium.



Learn about injustices.

Discover communities disproportionately impacted by the COVID-19 pandemic and how they compare to the rest of the United States.



Drive action in your city.

View our repository of resources to figure out how you can play a part in bridging inequality.



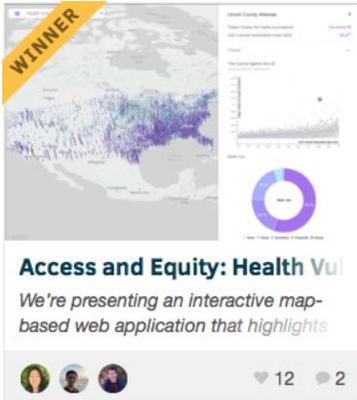
FRONTEND DEVELOPMENT
ETHAN MCFARLIN
 Ethan is a student from Colorado Springs, CO who goes to Harvard College.



BACKEND DEVELOPMENT
IRIS XIA
 Iris is a student from Saratoga, CA who goes to Stanford University.



FULLSTACK DEVELOPMENT
SEAN YANG
 Sean is a student from Houston, TX who goes to Harvard College.



Access and Equity: Health Vulnerability Mapper COVID-19
We're presenting an interactive map-based web application that highlights

Former SEES Interns, Ethan McFarlin, Iris Xia, and Sean Yang, who were a part of the 2019 Emergency Preparedness Team, competed in the 2020 AWS Data Exchange Challenge. The main requirement of the challenge is to build (or update) a data-driven solution that tells a story by employing at least one of the categories using: 1) at least two AWS services, and 2) at least one of the 3rd-party data products from AWS Data Exchange providers.

AWS Data Exchange Challenge

WINNER Best in Data Visualization

WINNER Best Healthcare Solution

Their project is titled “**Access and Equity: Health Vulnerability Mapper COVID-19**”, an interactive map-based web application that highlights the relationships between socioeconomic disparity and COVID-19 across the U.S. in an intuitive, real-time, & tangible medium.

<https://devpost.com/software/covid-19-medical-justice>

Try it out: <http://covid.shawsean.com/>